



pulse in the plurality of code pulses, and to provide the resulting product to the antenna.

3. A radio-frequency (RF) system, comprising:

5 a transmitter circuitry configured to provide a plurality of output pulses to a propagation medium, the transmitter circuitry including transmitter code-circuitry configured to code the plurality of output pulses so as to improve the output pulse-rate of the transmitter circuitry; and

10 a receiver circuitry configured to receive the plurality of output pulses from the propagation medium, the receiver circuitry including receiver code-circuitry configured to decode the plurality of output pulses.

15 4. A method of improving an output pulse-rate of a radio-frequency (RF) apparatus, comprising:

providing a transmitter circuitry configured to provide a plurality of output pulses;

providing a transmitter code circuitry; and

20 coding the plurality of output pulses so as to improve the output pulse-rate of the radio-frequency apparatus.

5. A method of improving the output pulse-rate of a radio-frequency (RF) apparatus, comprising:

providing an antenna;

providing a transmitter circuitry configured to supply a plurality of output

5 pulses;

coding the plurality of output pulses by using a plurality of code

components selected so as to improve the output pulse-rate of the radio-frequency apparatus;

10 multiplying each of the plurality of output pulses with a corresponding

component in the plurality of code components to provide a plurality of product signals; and

supplying each of the plurality of product signals to the antenna.

6. A method of improving the pulse transmission rate in a radio-frequency (RF) system, comprising:

15 providing a transmitter circuitry configured to provide a plurality of output pulses to a propagation medium;

coding the plurality of output pulses, by using a transmitter code-circuitry that supplies a plurality of code pulses configured to improve the output pulse rate of the transmitter circuitry;

20 providing a receiver circuitry configured to receive the plurality of output pulses from the propagation medium; and

decoding the plurality of output pulses by using a receiver code-circuitry.